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| | |
|----------------|---|
| NEWS 1 | Web Page for STN Seminar Schedule - N. America |
| NEWS 2 APR 02 | CAS Registry Number Crossover Limits Increased to
500,000 in Key STN Databases |
| NEWS 3 APR 02 | PATDPAFULL: Application and priority number formats
enhanced |
| NEWS 4 APR 02 | DWPI: New display format ALLSTR available |
| NEWS 5 APR 02 | New Thesaurus Added to Derwent Databases for Smooth
Sailing through U.S. Patent Codes |
| NEWS 6 APR 02 | EMBASE Adds Unique Records from MEDLINE, Expanding
Coverage back to 1948 |
| NEWS 7 APR 07 | 50,000 World Traditional Medicine (WTM) Patents Now
Available in CAplus |
| NEWS 8 APR 07 | MEDLINE Coverage Is Extended Back to 1947 |
| NEWS 9 JUN 16 | WPI First View (File WPIFV) will no longer be
available after July 30, 2010 |
| NEWS 10 JUN 18 | DWPI: New coverage - French Granted Patents |
| NEWS 11 JUN 18 | CAS and FIZ Karlsruhe announce plans for a new
STN platform |
| NEWS 12 JUN 18 | IPC codes have been added to the INSPEC backfile
(1969-2009) |
| NEWS 13 JUN 21 | Removal of Pre-IPC 8 data fields streamline displays
in CA/CAplus, CASREACT, and MARPAT |
| NEWS 14 JUN 21 | Access an additional 1.8 million records exclusively
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EMBASE Classic on STN |
| NEWS 15 JUN 28 | Introducing "CAS Chemistry Research Report": 40 Years
of Biofuel Research Reveal China Now Atop U.S. in
Patenting and Commercialization of Bioethanol |
| NEWS 16 JUN 29 | Enhanced Batch Search Options in DGENE, USGENE,
and PCTGEN |
| NEWS 17 JUL 19 | Enhancement of citation information in INPADOC
databases provides new, more efficient competitor
analyses |
| NEWS 18 JUL 26 | CAS coverage of global patent authorities has
expanded to 61 with the addition of Costa Rica |
| NEWS 19 SEP 15 | MEDLINE Cited References provide additional
relevant records with no additional searching. |
| NEWS 20 OCT 04 | Removal of Pre-IPC 8 data fields streamlines
displays in USPATFULL, USPAT2, and USPATOLD. |
| NEWS 21 OCT 04 | Precision of EMBASE searching enhanced with new
chemical name field |
| NEWS 22 OCT 06 | Increase your retrieval consistency with new formats for
Taiwanese application numbers in CA/CAplus. |
| NEWS 23 OCT 15 | Selected STN databases scheduled for removal on
December 31, 2010 |

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,
AND CURRENT DISCOVER FILE IS DATED 07 JULY 2010.

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FILE 'HOME' ENTERED AT 12:19:16 ON 15 OCT 2010

FILE 'MEDLINE' ENTERED AT 12:19:31 ON 15 OCT 2010

FILE 'EMBASE' ENTERED AT 12:19:31 ON 15 OCT 2010
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FILE 'BIOSIS' ENTERED AT 12:19:31 ON 15 OCT 2010
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=> s fluoroalkylsilane
L1 63 FLUOROALKYLSILANE

=> s "titanium dioxide"
L2 17087 "TITANIUM DIOXIDE"

=> s 11 and 12
L3 3 L1 AND L2

```
=> dup rem l3  
PROCESSING COMPLETED FOR L3  
L4          2 DUP REM L3 (1 DUPLICATE REMOVED)
```

==> d 14 1=2 ibib abs

L4 ANSWER 1 OF 2 MEDLINE on STN DUPLICATE 1
ACCESSION NUMBER: 2008203526 MEDLINE
DOCUMENT NUMBER: PubMed ID: 18361379
TITLE: A transparent and photo-patternable superhydrophobic film.
AUTHOR: Zhang Xintong; Kono Hiroki; Liu Zhaoyue; Nishimoto
Shunsuke; Tryk Donald A; Murakami Taketoshi; Sakai Hideki;
Abe Masahiko; Fujishima Akira
CORPORATE SOURCE: Kanagawa Academy of Science and Technology, West 614, KSP
Buildings, 3-2-1 Sakado, Takatsu-ku, Kawasaki, Kanagawa
213-0012, Japan.
SOURCE: Chemical communications (Cambridge, England), (2007 Dec 14)
No. 46, pp. 4949-51.
JOURNAL CODE: 9610838. ISSN: 1359-7345. L-ISSN: 1359-7345.
PUB. COUNTRY: England: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
(RESEARCH SUPPORT, NON-U.S. GOV'T)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200804

ENTRY DATE: Entered STN: 26 Mar 2008
Last Updated on STN: 25 Apr 2008
Entered Medline: 24 Apr 2008

AB A transparent superhydrophobic TiO₂ film, prepared by spin-coating a TiO₂ slurry on a glass substrate and modifying the resultant TiO₂ film with fluoroalkylsilane molecules, was patterned by illumination with ultraviolet light through a photomask, producing a superhydrophobic/superhydrophilic surface micropattern with very small superhydrophilic areas, which we were able to selectively fill with alginate hydrogel.

L4 ANSWER 2 OF 2 EMBASE COPYRIGHT (c) 2010 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER: 2007198356 EMBASE

TITLE: Super-hydrophobic surfaces of layer-by-layer structured film-coated electrospun nanofibrous membranes.

AUTHOR: Ogawa, Tasuku; Ding, Bin (correspondence); Sone, Yuji; Shiratori, Seimei

CORPORATE SOURCE: Faculty of Science and Technology, Keio University, Yokohama 223-8522, Japan. binding75@yahoo.com; shiratori@appi.keio.ac.jp

AUTHOR: Ding, Bin (correspondence)

CORPORATE SOURCE: Fiber and Polymer Science, University of California, Davis, CA 95616, United States. binding75@yahoo.com

AUTHOR: Shiratori, Seimei

CORPORATE SOURCE: SNT Ltd., Kawasaki 212-0054, Japan. shiratori@appi.keio.ac.jp

SOURCE: Nanotechnology, (25 Apr 2007) Vol. 18, No. 16. arn. 165607.
Refs: 35
ISSN: 0957-4484; E-ISSN: 1361-6528 CODEN: NNOTER
S 0957-4484(07)39035-1

PUBLISHER IDENT.: United Kingdom

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 027 Biophysics, Bioengineering and Medical
Instrumentation
029 Clinical and Experimental Biochemistry

LANGUAGE: English

SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 9 May 2007
Last Updated on STN: 9 May 2007

AB We have recently fabricated super-hydrophobic membrane surfaces based on the inspiration of self-cleaning silver ragwort leaves. This biomimetic super-hydrophobic surface was composed of fluoroalkylsilane (FAS)-modified layer-by-layer (LBL) structured film-coated electrospun nanofibrous membranes. The rough fibre surface caused by the electrostatic LBL coating of TiO₂ nanoparticles and poly(acrylic acid) (PAA) was used to imitate the rough surface of nanosized grooves along the silver ragwort leaf fibre axis. The results showed that the FAS modification was the key process for increasing the surface hydrophobicity of the fibrous membranes. Additionally, the dependence of the hydrophobicity of the membrane surfaces upon the number of LBL coating bilayers was affected by the membrane surface roughness. Moreover, x-ray photoelectron spectroscopy (XPS) results further indicated that the surface of LBL film-coated fibres absorbed more fluoro groups than the fibre surface without the LBL coating. A (TiO₂/PAA)₁₀ film-coated cellulose acetate nanofibrous membrane with FAS surface modification showed the highest water contact angle of 162° and lowest water-roll

angle of 2°. © IOP Publishing Ltd.

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=> file hcaplus
COST IN U.S. DOLLARS                               SINCE FILE      TOTAL
                                                    ENTRY        SESSION
FULL ESTIMATED COST                           7.83          8.05

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FILE 'HCAPLUS' ENTERED AT 12:20:29 ON 15 OCT 2010
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FILE COVERS 1907 - 15 Oct 2010 VOL 153 ISS 17
FILE LAST UPDATED: 14 Oct 2010 (20101014/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2010

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2010.

CAS Information Use Policies apply and are available at: www.cas.org/casinfo

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s fluoroalkylsilane
        494 FLUOROALKYLSILANE
        142 FLUOROALKYLSILANES
L5      560 FLUOROALKYLSILANE
        {FLUOROALKYLSILANE OR FLUOROALKYLSILANES}
```

```
=> s "titanium dioxide"
     632291 "TITANIUM"
           81 "TITANIUMS"
     632299 "TITANIUM"
           ("TITANIUM" OR "TITANIUMS")
     619579 "DIOXIDE"
     /291 "DIOXIDES"
     621452 "DIOXIDE"
           ("DIOXIDE" OR "DIOXIDES")
L6      61052 "TITANIUM DIOXIDE"
           ("TITANIUM" (%)"DIOXIDE")
```

=> s 15 and 16
L7 6 L5 AND L6

=> dup rem 17
PROCESSING COMPLETED FOR L7

L8

6 DUP REM L7 (0 DUPLICATES REMOVED)

=> d 18 1-6 ibib abs

L8 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2010:873160 HCAPLUS
DOCUMENT NUMBER: 153:300345
TITLE: Carbon Nanotubes Noncovalently Functionalized by an Organic-Inorganic Hybrid: New Building Blocks for Constructing Superhydrophobic Conductive Coatings
AUTHOR(S): Peng, Mao; Qi, Ji; Zhou, Zhi; Liao, Zhangjie; Zhu, Zhongming; Guo, Honglei
CORPORATE SOURCE: MOE Key Laboratory of Macromolecular Synthesis and Functionalization, Department of Polymer Science and Engineering, Zhejiang University, Hangzhou, 310027, Peop. Rep. China
SOURCE: Langmuir (2010), 26(16), 13062-13064
CODEN: LANGD5; ISSN: 0743-7463
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A facile method for constructing superhydrophobic, conductive, and transparent/translucent coatings is presented. Pristine multiwalled carbon nanotubes (MWNTs) are 1st noncovalently (wrapped) modified by an organic-inorg. hybrid of an amphiphilic copolymer of styrene and maleic anhydride and silica with the existence of γ -aminopropyltriethoxysilane (a silane coupling agent). The modified MWNTs were mixed with tetra-Et orthosilicate in ethanol, air sprayed, coated with a fluoroalkylsilane, and then heat treated to obtain the superhydrophobic, conductive, and transparent/translucent coatings. SEM shows that the coatings have a micrometer- and nanometer-scale hierarchical structure similar to that of lotus leaves; therefore, they show both high water contact angles ($>160^\circ$) and low sliding angles ($<2^\circ$). The coatings also exhibit good transmittance and greatly improved conductivities. This method is convenient, inexpensive, and easy to scale up. Also, it does not require any chemical modification of the MWNTs or use any harsh chems.
REFERENCE COUNT: 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2010:683758 HCAPLUS
TITLE: Fabrication of superhydrophobic surfaces of titanium dioxide and nickel through electrochemical deposition on stainless steel substrate
AUTHOR(S): Hu, Yawei; Liu, Shan; Huang, Siya; Pan, Wei
CORPORATE SOURCE: State Key Laboratory of New Ceramics and Fine Processing, Department of Materials Science and Engineering, Tsinghua University, Beijing, 100084, Peop. Rep. China
SOURCE: Key Engineering Materials (2010), 434-435(High-Performance Ceramics VI), 496-498
CODEN: KEMAEY; ISSN: 1013-9826
PUBLISHER: Trans Tech Publications Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Binary microstructures at both micro- and nano-scale are constructed by the electrochem. depositing Ni and TiO₂ on the stainless steel surface. Superhydrophobicity is achieved with a water contact angle greater than 150° after modifying the textured surface with fluoroalkylsilane (FAS-17, CF₃(CF₂)₇CH₂CH₂Si(OCH₃)₃). The

morphol. of the Ni-TiO₂ compound coating is studied by SEM.
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2007:1473653 HCAPLUS
DOCUMENT NUMBER: 148:342143
TITLE: A transparent and photo-patternable superhydrophobic
film
AUTHOR(S): Zhang, Xintong; Kono, Hiroki; Liu, Zhaoyue; Nishimoto,
Shunsuke; Tryk, Donald A.; Murakami, Taketoshi; Sakai,
Hideki; Abe, Masahiko; Fujishima, Akira
CORPORATE SOURCE: Kanagawa Academy of Science and Technology, 3-2-1
Sakado, Takatsu-ku, Kawasaki, Kanagawa, 213-0012,
Japan
SOURCE: Chemical Communications (Cambridge, United Kingdom)
(2007), (46), 4949-4951
CODEN: CHCOFS; ISSN: 1359-7345
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A transparent superhydrophobic TiO₂ film, prepared by spin-coating a TiO₂
slurry on a glass substrate and modifying the resultant TiO₂ film with
fluoroalkylsilane mols., was patterned by illumination with UV
light through a photomask, producing a superhydrophobic/superhydrophilic
surface micropattern with very small superhydrophilic areas, which we were
able to selectively fill with alginate hydrogel.
OS.CITING REF COUNT: 20 THERE ARE 20 CAPLUS RECORDS THAT CITE THIS
RECORD (20 CITINGS)
REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2006:32635 HCAPLUS
DOCUMENT NUMBER: 144:117481
TITLE: Electroluminescent device and its fabrication method
INVENTOR(S): Itoh, Norihito; Tachikawa, Tomoyuki; Itoh, Kiyoshi
PATENT ASSIGNEE(S): Dai Nippon Printing Co., Ltd., Japan
SOURCE: U.S. Pat. Appl. Publ., 28 pp.
CODEN: USXKC0
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| US 20060008742 | A1 | 20060112 | US 2005-155006 | 20050616 |
| US 7329479 | B2 | 20080212 | | |
| JP 2006318876 | A | 20061124 | JP 2005-155298 | 20050527 |
| GB 2416622 | A | 20060201 | GB 2005-12232 | 20050616 |
| GB 2416622 | B | 20090708 | | |
| US 20080096129 | A1 | 20080424 | US 2007-952445 | 20071207 |
| PRIORITY APPLN. INFO.: | | | | |
| | | | JP 2004-192024 | A 20040629 |
| | | | JP 2005-115469 | A 20050413 |
| | | | JP 2005-155298 | A 20050527 |
| | | | US 2005-155006 | A3 20050616 |

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The invention relates to a production process of an electroluminescent
element, which, even when a buffer layer patterned by a photolithog.
process is formed, luminescence failure derived from cross contamination
or a variation in film thickness does not take place and can realize high

production efficiency. The production process entails repeating at least twice the step of forming an electroluminescent layer comprising a buffer layer and a luminescent layer by patterning using a photolithog. process, thereby producing an electroluminescent element comprising a patterned electroluminescent layer, and comprises the steps of forming a first pattern part comprising a first buffer layer as the lowermost layer; and coating a solution for second buffer layer formation in a region including said first pattern part, the first buffer layer being immiscible with said solution for second buffer layer formation.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:1120936 HCAPLUS
DOCUMENT NUMBER: 144:436539

TITLE: Study on hydrophobic nano-titanium dioxide coatings for improvement in corrosion resistance of type 316L stainless steel

AUTHOR(S): Shen, G. X.; Du, R. G.; Chen, Y. C.; Lin, C. J.; Scantlebury, D.

CORPORATE SOURCE: State Key Laboratory of Physical Chemistry of Solid Surfaces, Department of Chemistry, Xiamen University, Xiamen, 361005, Peop. Rep. China

SOURCE: Corrosion (Houston, TX, United States) (2005), 61(10), 943-950

CODEN: CORRAK; ISSN: 0010-9312
PUBLISHER: NACE International

DOCUMENT TYPE: Journal
LANGUAGE: English

AB Using Et acetoacetate (EAcAc) as a chelating agent, titanium dioxide (TiO₂) sol with ultra-fine particles has been prepared and deposited on Type 316L (UNS S31603) stainless steel to form a nano-TiO₂ coating by the dip-coating. A hydrothermal post treatment method has been applied to obtain crack-free coatings and to optimize the surface structure and properties. A self-assembly of fluoroalkylsilane (denoted as FAS-13) has been conducted to enhance the hydrophobic property for the surface of the nano-TiO₂ coatings. The particle sizes of TiO₂ sol have been analyzed by ζ potential anal., and the surface morphol., structure, and properties have been characterized by contract angle, x-ray diffraction, and SEM measurements. The surface of the coatings is porous, with approx. 375 nm thickness; the diameter of the particles of anatase TiO₂ is uniform, in the range from 15 nm to 18 nm. The electrochem. tests have indicated that the hydrophobic coatings of nano-TiO₂ exhibit an excellent corrosion resistance.

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1999:402147 HCAPLUS
DOCUMENT NUMBER: 131:33028

TITLE: Treatment of a surface for generating an antiadherent, thermally stable fluoroalkylsilane coating
INVENTOR(S): Mostefai, Malik; Shanahan, Martin E. R.; Meslif, Alain; Fayet, Florence

PATENT ASSIGNEE(S): Gaz de France, Fr.
SOURCE: Fr. Demande, 19 pp.
CITATION ID: FRXXBL

DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|---|--|-----------------|----------|
| FR 2768947 | A1 | 19990402 | FR 1997-12084 | 19970929 |
| FR 2768947 | B1 | 19991224 | | |
| PRIORITY APPLN. INFO.: | | | FR 1997-12084 | 19970929 |
| OTHER SOURCE(S): | MARPAT 131:33028 | | | |
| AB | The title process comprises reacting at least part of the surface with a fluoroalkylsilane and $(\text{B1CO}_2)z_1(\text{B2CO}_2)z_2\text{MB}_3z_3\text{B}_4z_4$ ($\text{M} = \text{Si, Ti, Zr, Al; B1, B2, B3, B4 = Me, Et, z}_1, z_2, z_3, z_4 = 0-4$ and the sum of $z_1-z_4 = \text{valence of M, } z_1 + z_2 \geq 2$), SiO_2 , TiO_2 , ZrO_2 , or Al_2O_3 . | | | |
| OS.CITING REF COUNT: | 2 | THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS) | | |
| REFERENCE COUNT: | 1 | THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT | | |

=> d his

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| | |
|--------------------------------|-------------------------------------|
| FILE 'MEDLINE, EMBASE, BIOSIS' | ENTERED AT 12:19:31 ON 15 OCT 2010 |
| L1 | 63 S FLUOROALKYLSILANE |
| L2 | 17087 S "TITANIUM DIOXIDE" |
| L3 | 3 S L1 AND L2 |
| L4 | 2 DUP REM L3 (1 DUPLICATE REMOVED) |
| FILE 'HCAPLUS' | ENTERED AT 12:20:29 ON 15 OCT 2010 |
| L5 | 560 S FLUOROALKYLSILANE |
| L6 | 61052 S "TITANIUM DIOXIDE" |
| L7 | 6 S L5 AND L6 |
| L8 | 6 DUP REM L7 (0 DUPLICATES REMOVED) |

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